QC ABSTRACT

NAME OF WORK: Providing Gym Equipments at DEO Marbles in Ward No:03.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
6	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-18** **Date: 10-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Gym Equipments at DEO Marbles in Ward No:03.
Agency	:	M/S S.M.L.P. Asphalts Prop. B. B.Umesh, No:385, Bettehalasuru Post Bangalore North.
Customer's Reference	:	EE(YNK.D)E.PMT-03/W.O/94/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	—

CIVIL Pro Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-18** **Date: 09-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Gym Equipments at DEO Marbles in Ward No:03.
Agency	:	M/S S.M.L.P. Asphalts Prop. B. B.Umesh, No:385, Bettehalasuru Post Bangalore North.
Customer Reference	:	EE(YNK.D)E.PMT-03/W.O/94/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-03-06-18 **Date: 09-08-19**

Customer : Assistant Executive Engineer, Yelahanka Satallite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satallite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Gym Equipments at DEO Marbles in Ward No:03.

Agency : M/S S.M.L.P. Asphalts Prop. B. B.Umesh, No:385, Bettehalasuru Post Bangalore North.

Customer's Reference : EE(YNK.D)E.PMT-03/W.O/94/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 07-08-19

Total weight taken : 1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2020-03-06-18 **Date: 19-08-19**

Customer : Assistant Executive Engineer, Yelahanka Satallite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satallite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Gym Equipments at DEO Marbles in Ward No:03.

Agency : M/S S.M.L.P. Asphalts Prop. B. B.Umesh, No:385, Bettehalasuru Post Bangalore North.

Customer's Reference : EE(YNK.D)E.PMT-03/W.O/94/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-19

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 14/08/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2020-03-06-18** **Date: 24-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satallite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Gym Equipments at DEO Marbles in Ward No:03.
Agency	:	M/S S.M.L.P. Asphalts Prop. B. B.Umesh, No:385, Bettehalasuru Post Bangalore North.
Customer Reference	:	EE(YNK.D)E.PMT-03/W.O/94/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type/ Size	:	Precast Concrete Blocks for Paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	20-08-19

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.11	3.29	3.64
2	4.898	4.721	60.98	3.75	
3	4.988	4.802	60.12	3.87	

Note:
The results pertain to the samples received and tested.
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Samples will be disposed after 90 days from the date of issue of test certificate

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Authorized Signatory
Technical Manager

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